

7. CLAIMS

WHAT IS CLAIMED IS:

- 1 1. A liquid crystal display comprising:
- 2
- 3 (a) a liquid crystal cell;
- 4
- 5 (b) a polarizer layer;
- 6
- 7 (c) an analyzer layer;
- 8
- 9 (d) a compensator substrate disposed between said polarizer layer and said analyzer layer; and
- 10
- 11 (e) a plurality of thin-film compensator layers deposited on said compensator substrate, said thin-
- 12 film compensator layers including:
- 13
- 14 (1) an O-plate thin-film compensator layer; and
- 15
- 16 (2) at least one thin-film compensator layer selected from the group consisting of (i) a
- 17 positively birefringent O-plate compensator layer, (ii) a positively birefringent A-plate
- 18 compensator layer, (iii) a negatively birefringent A-plate compensator layer, and (iv) a
- 19 negatively birefringent C-plate compensator layer.
- 1 2. A monolithic compensator for a liquid crystal display, said monolithic compensator comprising:

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2
3 (a) a substrate;

4
5 (b) a plurality of thin-film compensator layers deposited on said substrate, said thin-film
6 compensator layers including at least two thin-film compensator layers selected from the group
7 consisting of (i) a positively birefringent O-plate compensator layer, (ii) a positively
8 birefringent A-plate compensator layer, (iii) a negatively birefringent A-plate compensator
9 layer, and (iv) a negatively birefringent C-plate compensator layer.

1 3. The monolithic compensator of claim 2, wherein at least one of said at least two thin-film
2 compensator layers is an O-plate.:

1 4. The monolithic compensator of claim 2, wherein all of said plurality of thin-film compensator layers
2 are deposited on a specified side of the substrate.

1 5. The monolithic compensator of claim 2, wherein:

2
3 (a) said liquid crystal display includes a liquid crystal cell; and

4
5 (b) said substrate forms part of said liquid crystal cell.

1 6. The monolithic compensator of claim 2, wherein:

3 (a) said liquid crystal display includes a polarizer layer; and

5 (b) said substrate forms part of said polarizer layer.

1 7. The monolithic compensator of claim 2, wherein:

3 (a) said liquid crystal display includes a polarizer layer, an analyzer layer, and a compensator
4 substrate disposed between said polarizer layer and an analyzer layer; and

6 (b) the substrate of claim 2 is said compensator substrate.

sub at 8. A liquid crystal display comprising:

3 (a) a liquid crystal cell comprising a first transparent substrate and a second transparent substrate
4 forming respective walls of said liquid crystal cell;

6 (b) a polarizer layer;

8 (c) an analyzer layer;

10 (d) a monolithic compensator in accordance with claim 2.

1 9. The liquid crystal display of claim 8, wherein the substrate of the monolithic compensator in
2 accordance with claim 2 forms part of said liquid crystal cell.

- 1 10. The liquid crystal display of claim 8, wherein the substrate of the monolithic compensator in
2 accordance with claim 2 forms part of said polarizer layer.

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